AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A transceiver system, comprising:

a transmitter portion arranged on a <u>contiguous</u> bottom layer of a multi-layer printed circuit board, the transmitter portion capable of providing signals to a transmitter optical subassembly configured to transmit optical signals from the transceiver system;

a receiver portion arranged on the <u>contiguous</u> bottom layer of the multi-layer printed circuit board, the receiver portion capable of receiving signals from a receiver optical subassembly configured to receive optical signals into the transceiver system;

a high-voltage power supply arranged on a top layer of the multi-layer printed circuit board, the high-voltage power supply providing a bias voltage for the receiver optical subassembly; and

a metallic ground plane arranged on a first intermediate layer of the multi-layer printed circuit board between the top layer and the <u>contiguous</u> bottom layer, the metallic ground plane providing electrical shielding between the high-voltage power supply and the transmitter portion and the receiver portion.

- (Original) The system according to claim 1, wherein the transmitter portion and the receiver portion are arranged in a split-ground arrangement.
- (Previously presented) The system according to claim 1, wherein a second intermediate layer of the multi-layer printed circuit board having vias is arranged between the first intermediate layer and the top layer.

- (Currently amended) The system according to claim 3, wherein a third
 intermediate layer of the multi-layer printed circuit board having vias is arranged between the
 first intermediate layer and the <u>contiguous</u> bottom layer.
- (Original) The system according to claim 4, wherein an interconnect layer is arranged between the first intermediate layer and the third intermediate layer.
- (Currently amended) The system according to claim 1, further including a microcontroller system arranged on the top layer and the <u>contiguous</u> bottom layer.
 - (Currently amended) A transceiver system, comprising:

means for receiving signals from a receiver optical subassembly configured to receive optical signals into the transceiver system, the means for receiving being arranged on a contiguous bottom layer of a multi-layer printed circuit board;

means for transmitting signals through a transmitter optical subassembly configured to transmit optical signals from the transceiver system, the means for transmitting being arranged on the <u>contiguous</u> bottom layer of the multi-layer printed circuit board;

means for generating a high-voltage bias for the receiver optical subassembly, the means for generating being arranged on a top layer of the multi-layer printed circuit board;

means for electrically shielding the means for generating the high-voltage bias from the means for receiving and the means for transmitting, the means for electrically shielding being arranged on a first intermediate layer of the multi-layer printed circuit board between the top layer and the contiguous bottom layer.

 (Currently amended) A method of shielding a high voltage power supply providing a bias voltage for an optical assembly, comprising:

arranging the high voltage power supply on a top layer of a multi-stack printed circuit board:

arranging a receiver and a transmitter on a <u>contiguous</u> bottom layer of the multi-stack printed circuit board, the receiver-and transmitter being capable of receiving-and transmitting signals from and to-a receiver optical subassembly, the transmitter being capable of transmitting signals to-and a transmitter optical subassembly-respectively; and

arranging a shielding plane on a first intermediate layer of the multi-stack printed circuit board;

wherein the receiver optical subassembly and the transmitter optical subassembly are configured to respectively receive and transmit optical signals into and from thea transceiver system that includes the receiver and the transmitter.

9. (Canceled).

- (Original) The method of claim 8, further including providing a split ground between the high-voltage power supply and the other circuitry.
- 11. (Currently amended) The method of claim 8, further including arranging a second intermediate layer of the multi-stack printed circuit board between the top layer and the contiguous bottom layer, the second intermediate layer including vias to provide electrical contact with traces on the top layer.

- 12. (Previously presented) The method of claim 11, further including arranging a third intermediate layer of the multi-stack printed circuit board between the first intermediate layer and the second intermediate layer, the third intermediate layer providing traces.
- 13. (Currently amended) The method of claim 12, further including arranging a fourth intermediate layer of the multi-stack printed circuit board between the first intermediate layer and the contiguous bottom layer, the fourth intermediate layer including vias.

14. (Currently amended) A transceiver, comprising:

means for providing a bias voltage formed on a top layer of a multi-layer printed circuit board;

means for receiving a signal from an optical subassembly configured to receive optical signals into the transceiver formed on a <u>contiguous</u> bottom layer of the multi-layer printed circuit board:

means for transmitting a signal through an optical subassembly configured to transmit optical signals from the transceiver formed on the <u>contiguous</u> bottom layer of the multi-layer printed circuit board; and

means for sheildingshielding the means for providing a bias voltage from the means for receiving a signal and the means for transmitting a signal, the means for shielding formed on an intermediate layer of the multi-layer printed circuit board between the top and contiguous bottom layers.